

IN THE CLAIMS:

The following listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Cancelled)

2. (withdrawn) An electric motor and a generator which is constituted using the electric motor as a power source and is used in an electric power line, characterized in that

in a case of a power generation function, the generator is activated and is risen up near to a synchronous speed and the generator is carried out a switch-on operation;

in a case of an electric power generation function, the electric motor is made once in non-load condition and is activated and is risen up near once to a synchronous speed from a stop condition and the generator is carried out a switch-on operation; and

thereby an induction motor excited on an electric power system line or an alternating current is constituted.

3. (withdrawn) A fluid machine having a blade or a water turbine and a rotating machine, characterized in that

in a case of a propelling machine, a twist angle is made reversal, and

in a case of a centrifugal machine, an intake port of the fluid is changed over from an air inhale side to an air exhaust side;

thereby without an alternation of a control circuit, a fluid transportation function is changed over to a power generation system.

4. (withdrawn) An electric motor and a generator which is constituted using the electric motor as a power source and is used in an electric power line, characterized in that

in every case of a power generation function and a complex function of the electric motor and the generator,

when a stop or a power function is changed over to a power generation system, data necessary to control a load condition, an outside portion power condition, a power condition of an outside generator etc. are detected by a sensor; and

in accordance with the detected data the stop or the power function is changed over to the power generation system,
thereby a whole system is operation-controlled.

5. (withdrawn) A wind power generation system having an electric motor and a generator for sending air using a blade and for carrying out a wind power generation by taking air into from all direction, characterized in that

a wind direction guide is installed; and

an induction motor is constituted as a main electric machine.

6. (withdrawn) A wind power generation system having an electric motor and a generator for sending air using a blade and for carrying out a wind power generation, and having an electric motor and a generator, characterized in that

an inclined magnetic field is formed in a flow passage using one selected from a single permanent magnet, a single electromagnet, plural permanent magnets and plural electromagnet; and

air is moved always according to oxygen in the air and the inclined magnetic field.

7. (withdrawn) A fluid power generation system having a fluid machine constituted by a blade, a water turbine and a rotating machine, and having an electric motor and a generator, characterized in that

in a case of a single power generation function, the system is activated as the electric motor and the electric motor is risen up near to a synchronous speed; and

in a case of a complex function of the electric motor and the generator, a rotation magnetic field is varied electrically, and the system is activated as the electric motor and the electric motor is risen up near to a synchronous speed.

8. (withdrawn) A rotating machine having a stator and a rotor, characterized in that

a single conductive member or plural conductive members are provided with a sandwich shape in a laminated iron core; and

on an outer peripheral portion of the conductive member, a groove is provided to not flow current shortly between rotor bars.

9. (withdrawn) A rotating machine having a stator and a rotor, characterized in that

a single disc member or plural disc member are provided in a laminated iron core of the rotor; and

the laminated iron core of the rotor is projected from an axial direction length of an iron core of the stator.

10. (withdrawn) A rotating machine according to claim 9, characterized in that an extension portion of a rotor bar is formed on an outer peripheral portion of an end ring;

thereby a magnetic field of an overhang portion of the laminated iron core of the rotor is formed validly.

11. (new) A system having an electric motor for driving machines and for electrical power generation, comprising:

said electric motor, wherein said electric motor has structure for driving a machine; and

a power source for supplying power to the electric motor,

wherein said power source supplies power to the electric motor such that said electric motor generates electrical power, whereby the electric motor can both drive the

machine and generate electrical power.

12. (new) The system according to claim 11, further comprising said machine, adapted to be driven by said electric motor.

13. (new) The system according to claim 12, wherein said electric motor is an alternating current electric motor, and said machine is selected from the group consisting of machine tools and compressors; and wherein the system further comprises another power source for generating a mechanical power, said another power source being at least one selected from the group consisting of a direct current electric motor, an internal combustion engine, a source of wind power, a source of hydraulic power and a source of manually-generated power.

14. (new) The system according to claim 11, wherein said electric motor is electrically connected to an electric power line.

15. (new) The system according to claim 11, wherein when the electric motor generates electrical power, the electric motor is in a non-load condition and has a speed near a synchronous speed, raised from a stopped condition; and wherein said electric motor is an induction motor.

16. (new) The system according to claim 11, further comprising sensors for detecting conditions of the system, thereby obtaining detected data; and when the

electric motor changes from a stopped status or a status of driving the machine to a status of generating electrical power, the stopped status or status of driving the machine is changed over to the electrical power generation based upon the detected data, whereby the system is operation-controlled.

17. (new) The system according to claim 16, wherein said sensors detect a load condition and power supplied by said power source.

18. (new) A system having an electric motor for driving a machine and for electrical power generation, comprising:

said electric motor, wherein said electric motor has a structure for driving said machine;

a first power source for supplying electrical power to said electric motor, wherein said first power source supplies electric power to said electric motor such that said electric motor generates electrical power, whereby said electric motor can both drive said machine and generate electric power;

a driving-motor for supplying mechanical power to said electric motor to use said electric motor as a generator; and

a second power source for supplying mechanical power to said driving-motor.

19. (new) The system according to claim 18, wherein said electric motor is an alternating current electric motor; said machine is selected from the group consisting of machine tools and compressors; and said second power source for supplying

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mechanical power is at least one selected from the group consisting of a direct current electric motor, an internal combustion engine, a source of wind power, a source of hydraulic power and a source of manually-generated power.

IN THE DRAWINGS:

Please substitute the enclosed replacement drawings for original drawings in the application. The replacement drawings include replacement drawings for Figs. 1A and 1B, 2A and 2B, 8A and 8B, and 16A and 16B. The replacement drawings insert the word "BACKGROUND" to each of Figs. 1A, 2A, 8B and 16B. Noting the Brief Description of the Drawings on pages 5-7, among other pages, of Applicant's original specification, the present amendments to the drawings clearly do not constitute new matter. In addition, upon substitution of replacement pages as enclosed herewith, the objection to the drawings as set forth in Item 2 on page 2 of the Office Action mailed May 15, 2003, is moot.